## 105.12 - Respirable Materials

SRMs 1878b and 1879b are crystalline silica materials with particle size in the respirable range. They are intended for use in determining, by x-ray diffraction, the levels of respirable silica in an industrial atmosphere according to National Institute for Occupational Safety and Health (NIOSH) Analytical Method 7500 or equivalent methods. NOTE: These SRMs are not certified for particle size.

Also see Table 105.10 Respirable Materials on Filter Media

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

				Respirable	Desminable		Elements	Trace				
Urban Dust (2 g)	Diesel Particulate Matter (200 mg)	Common Commercial Asbestos (set (3))	Beryllium Oxide Powder (20 g)	Respirable Alpha Quartz (Quantitative X-Ray Powder Diffraction Standard) (5 g)	Respirable Cristobalite (Quantitative X-Ray Powder Diffraction Standard) (5 g)	Diesel Particulate Extract (4 x 1.2 mL)	Trace Elements in Indoor Dust (Nominal Mass Fraction of 90 mg/kg Lead)	Trace Elements in Indoor Dust (Nominal Mass Fraction of 1 % Lead)	Organic Contaminants in House Dust (10 g)	Fine Atmospheric Particulate Matter (Mean Particle Diameter < 4 µm) (100 mg to 140 mg)	Fine Atmospheric Particulate Matter (Mean Particle Diameter < 10 µm) (100 mg to 140 mg)	Diesel Particulate Matter (1 g)
13 PCBs, 4 pesticides Reference values: 1 element, 38 PAHs, 16 nitro-PAHs, 49 PCBs,	Reference values: 59 PAHs, 16 nitro-PAHs	crocidolite				nitro-PAHs Reference values: 23 PAHs, 15 nitro-PAHs, mutagenicity, residue mass	elements	elements Reference values: 10 elements	pesticides, 15 PBDEs Reference values: 33 PAHs, 12 PCBs, 10 pesticides, 3 PBDEs 5 polycyclic	nitro-PAHs, 2 PBDE, 8 elements Reference values: 27 PAHs, 5 nitro-PAHs, 13 elements, 3 sugars, 5 PBDE, 12 dioxins, 15 furans	PBDE, 7 elements Reference values: 27 PAHs, 5-nitro-PAHs, 5 PBDE, 14 elements, 3 sugars, 12 dioxins, 15 furans	nitro-PAHs Reference values: 36 PAHs, 9 nitro-PAHs, particle-size, total extractable mass
	Dust (2 g)  Certified: 3 elements, 23 PAHs, 13 PCBs, 4 pesticides Reference values: 1 element, 38 PAHs, 16 nitro-PAHs,	Urban Dust Particulate Matter (2 g) (200 mg)  Certified: 3 Certified: elements, 23 PAHs, 110-PAHs element, 38 PAHs, 16 nitro-PAHs, 49 PCBs, 34	Urban Dust Matter Commercial Asbestos (2 g) (200 mg) (set (3))  Certified: 3 elements, 25 PAHs, 7 nitro-PAHs 16 nitro-PAHs, 49 PCBs, 34	Urban Dust Matter Asbestos Powder  (2 g) (200 mg) (set (3)) (20 g)  Certified: 3 Certified: elements, nitro-PAHs element, 38 PAHs, 16 nitro-PAHs 49 PCBs, 34	Urban Dust Matter Asbestos Powder Standard)  (2 g) (200 mg) (set (3)) (2 0 g) (5 g)  Certified: 3 certified: 26 PAHs, 7 amosite, 13 PCBs, 14 PCBs, 16 PCBs, 16 nitro-PAHs 16 nitro-PAHs, 49 PCBs, 34	Urban Dust Matter Asbestos Powder Standard)  (2 g) (200 mg) (set (3)) (20 g) (5 g) (5 g)  Certified: 3 Certified: elements, 125 PAHs, 16 values: 19 Reference PAHs, 16 nitro-PAHs element, 38 PAHs, 16 nitro-PAHs 49 PCBs, 34	Urban Dust Matter Asbestos Oxide Nowder Standard)  (2 g) (200 mg) (set (3)) (20 g) (5 g) (5 g) (5 g) (4 x 1.2 mL)  Certified: 3 Certified: clements, 25 PAHs, 16 values: 19 Reference PAHs, 16 nitro-PAHs element, 38 PAHs, 16 nitro-PAHs 49 PCBs, 34	Urban Dust Matter Asbestos Powder Standard)  (2 g) (200 mg) (set (3)) (20 g) (5 g) (5 g) (4 x 1.2 mL) (8 g)  Certified: 3 Certified: elements, 25 PAHs, 16 values: 19 Reference PAHs, 16 values: 1 nitro-PAHs element, 38 PAHs, 16 nitro-PAHs, 49 PCBs, 34	Urban Dust Matter Asbestos Powder Standard)  (2 g) (200 mg) (set (3)) (20 g) (5 g) (5 g) (5 g) (4 x 1.2 mL) (8 g) (8 g)  Certified: 3 Certified: (alements, 25 PAHs, 16 Values: 19 Reference PAHs, 16 values: 1 nitro-PAHs elements, 16 nitro-PAHs (16 mitro-PAHs, 49 PCBs, 34	Urban Dust Matter Asbestos Powder Standard)  (2 g) (200 mg) (set (3)) (20 g) (5 g) (5 g) (5 g) (4 x 1.2 mL) (8 g) (8 g) (10 g)  Certified: 3 Certified: clements, 26 PAHs, 7 32 PAHs, 17 PCBs, Reference PAHs, 16 values: 19 Reference PAHs, 16 nitro-PAHs elements, 16 PAHs, 4 nitro-PAHs elements, 16 PAHs, 4 nitro-PAHs elements, 16 PAHs, 4 nitro-PAHs, 17 PCBs, 16 nitro-PAHs, 18 PCBs, 19 PCBs, 10 pesticides, 18 PCBs, 19 PCB	Urban Dust Matter Asbestos Powder Standard)  (2 g) (20 mg) (set (3)) (20 g) (5 g) (5 g) (5 g) (4 x 1.2 mL) (8 g) (8 g) (10 g) (10 0 mg to 140 mg)  Certified: 3 Certified: elements, 26 PAHs, 7 amostle, crocidolite 13 PAHs, 13 PCBs, Reference PAHs, 16 values: 19 Reference PAHs, 16 relements, 16 PAHs, 16 relements, 16 PAHs, 16 relements, 16 PAHs, 16 relements, 16 PCBs, 4 pesticides values: 10 relements, 16 relements, 16 relements, 16 relements, 18 PAHs, 16 relements, 18 PAHs, 16 relements, 18 PAHs, 16 relements, 18 PCBs, 16 relements, 18 PCBs, 16 relements, 28 PAHs, 15 relements, 29 PAHs, 15 residue mass PCBs, 10 pesticides, 3 relements, 38 PAHs, 5 residue mass PCBs, 10 pesticides, 3 relements, 36 PAHs, 2 residue mass PCBs, 10 pesticides, 3 relements, 36 PCBs, 10 pesticides, 3 relements, 36 PCBs, 4 residue, 37 PCBs, 10 pesticides, 3 relements, 38 PAHs, 5 residue mass PCBs, 4 pesticides, 3 relements, 36 PCBs, 4 pesticides, 3 relements, 36 PCBs, 4 pesticides, 3 relements, 36 PCBs, 4 pesticides, 3 relements, 37 PCBs, 10 pesticides, 3 relements, 38 PCBs, 4 pesticides, 3 relements, 38 PCBs, 4 pesticides, 3 relements, 38 PCBs, 4 pesticides, 3 relements, 36 PCBs, 4 pesticides, 37 pesticides, 3 relements, 38 PCBs, 4 pesticides, 35 polycyclic mass relements, 4 pesticides, 4 pesticides, 3 relements, 4 pesticides, 3 relements, 5 polycyclic mass relements, 4 pesticides, 3 relements, 5 polycyclic mass relements, 4 pesticides, 3 relemen	Urban Dust Matter Asbestos Powder Standard)  (2 g) (200 mg) (set (3)) (20 g) (5 g) (5 g) (5 g) (6 g) (

Certified values are normal fontReference values are italicizedValues in parentheses are for information only